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## MERCER COUNTY

### (Mercer County Water Service Area Map)

- Estimated 1999 population of 20,700--92% on public water
- Estimated 2020 population of 22,900--95% on public water
- 340 miles of water lines, with plans for 90 additional miles
- Estimated funding needs for public water 2000-2005--\$7,650,000
- Estimated funding needs for public water 2006-2020--\$7,465,000

Mercer County had an estimated population of 20,723 (8,563 households) in 1999 with a projected population of 22,870 (9,709 households) in 2020. Public water is provided to about 92 percent of the county's residents. In areas of the county not served by public water, about 25 percent of the households rely on private domestic wells and 75 percent of the households rely on other sources. About 260 customers will be added to public water service through new line extensions in 2000-2020.

#### *Estimated Costs - Proposed Projects, 2000-2005*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	In \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MERCER								-
Harrodsburg				700			820	1,520
Burgin				4,300				4,300
Lake Village Water	24.0	93	1,100					1,100
N. Mercer	16.0	45	730					730
TOTAL	40.0	138	1,830	5,000			820	7,650

#### *Estimated Costs - Proposed Projects, 2006-2020*

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
MERCER								-
Harrodsburg				730	500	4,100		5,330
Burgin				100				100
Lake Village Water	15	33	635					635
N. Mercer	35	91	1,400					1,400
Total	50	124	2,035	830	500	4,100		7,465

### PUBLIC WATER SYSTEMS

Mercer County has 5 public water systems: 4 community-- 2 municipal, Burgin Water Department and Harrodsburg Municipal Water Department; 1 water district, North Mercer

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# WATER SERVICE AREAS

## MERCER COUNTY

### Kentucky

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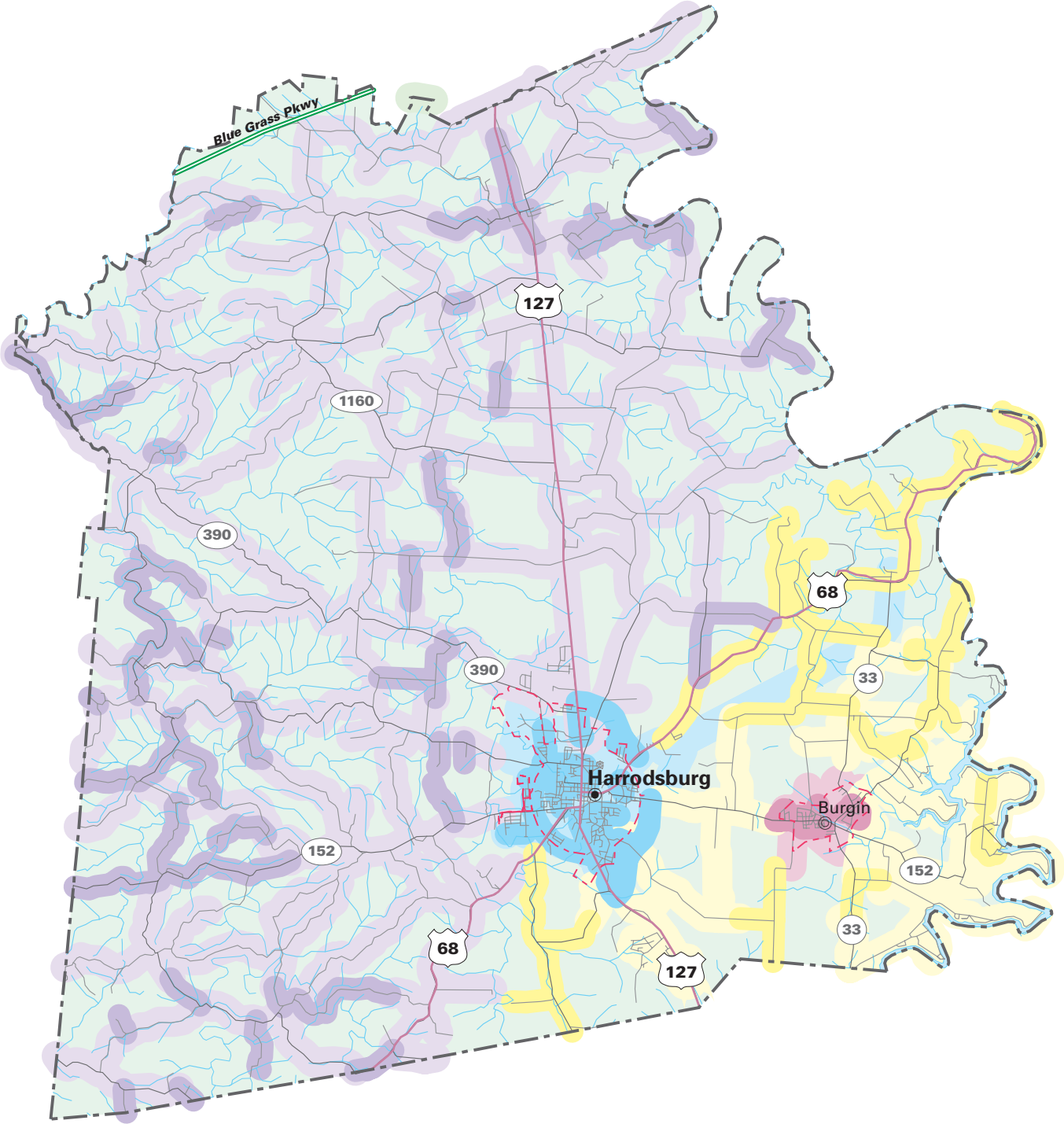
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#### WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	
		SOUTH ANDERSON WATER DISTRICT
		NORTH MERCER WATER DISTRICT
		LAKE VILLAGE WATER ASSOCIATION
		HARRODSBURG MUNICIPAL WATER
		BURGIN MUNICIPAL WATER

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Water District; 1 water association, Lake Village Water Association; and 1 non-community system.

**BURGIN MUNICIPAL WATER DEPARTMENT**

PWSID: ..... 0840048  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 0.00  
Percent Daily Average Production: ..... 0.00  
Total Tank Storage Capacity (gallons): ..... 0.00  
Total Service Connections: ..... 498.00  
Number of Employees: ..... 0.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**HARRODSBURG MUNICIPAL WATER DEPARTMENT**

PWSID: ..... 0840180  
System Type: ..... COMMUNITY  
Owner Type: ..... MUNICIPAL  
Surface Source: ..... KENTUCKY RIVER  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD): ..... 4.00  
Percent Daily Average Production: ..... 53.00  
Total Tank Storage Capacity (gallons): ..... 750,000.00  
Total Service Connections: ..... 3,600.00  
Number of Employees: ..... 0.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class: ..... 4A  
Customer Rate for 1,000 Gallons: ..... Not available  
O/M costs 1997: ..... Not available  
O/M costs per Service Connection: ..... Not available  
Net Revenue 1997: ..... Not available  
Total Water Produced 1997 (gallons): ..... Not available  
Water Sold 1997 (gallons): ..... Not available  
Unaccounted-for Water 1997 (%): ..... Not available

**NORTH MERCER WATER DISTRICT**

PWSID: ..... 0840321

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System Type:..... COMMUNITY  
Owner Type:..... WATER DISTRICT  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons):..... 120,000.00  
Total Service Connections: ..... 3,110.00  
Number of Employees:..... 9.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 4.73  
O/M costs 1997:..... 547,940.00  
O/M costs per Service Connection: ..... 178.77  
Net Revenue 1997:..... 4,269.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 182,025,000.00  
Unaccounted-for Water 1997 (%): ..... 13.49

**LAKE VILLAGE WATER ASSOCIATION**

PWSID:..... 0840587  
System Type:..... COMMUNITY  
Owner Type:..... WATER ASSOCIATION  
Surface Source:  
Purchase Source:  
Well Source:  
Sells Water to:  
Treatment Plant Capacity (MGD):..... 0.00  
Percent Daily Average Production:..... 0.00  
Total Tank Storage Capacity (gallons):..... 47,000.00  
Total Service Connections: ..... 1,693.00  
Number of Employees:..... 6.00  
Treatment Operator Class: ..... 2D  
Distribution Operator Class:  
Customer Rate for 1,000 Gallons:..... 6.68  
O/M costs 1997:..... 410,397.00  
O/M costs per Service Connection: ..... 252.24  
Net Revenue 1997:..... 15,278.00  
Total Water Produced 1997 (gallons):..... 0.00  
Water Sold 1997 (gallons):..... 89,437,000.00  
Unaccounted-for Water 1997 (%): ..... 28.91

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## OTHER SYSTEMS

### **WARDS LANDING**

Wards Landing is located in Mercer County. The system serves a population of 50 and has 1 service connection. The private, transient, non-community system has treatment capacity of 10,000 gallons per day. The water source is wells.

### **PRIVATE DOMESTIC SYSTEMS**

About 1,600 people in Mercer County rely on private domestic water supplies: 400 on wells and 1,200 on other sources.

In the bottoms of the Salt, Dix, and Kentucky Rivers most drilled wells will produce enough water for a domestic supply at depths of less than 100 feet. In the larger creek and river valleys and a limited area between Harrodsburg and Shakertown, wells will produce enough water for a domestic supply except during dry weather. In the upland areas of Mercer County, which encompasses 65% of the county, most drilled wells will not produce enough water for a dependable domestic supply except along drainage lines that may produce enough water except during dry weather.

Throughout the county ground water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet.

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